

Converting Colors

CIELCh(45, 0.190, 34.159)

Have a look what the booklet for
CIELCh(45, 0.190, 34.159) contains.

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Color

CIELCh(45, 0.412, 18.611)

Conversions

Conversions Part 1

Format	Color
Hex	6B6A6A
RGB	107, 106, 106
RGB Percent	42%, 42%, 42%
CMY	0.5795, 0.5834, 0.5834
CMYK	0.00, 0.01, 0.01, 0.58
HSL	0°, 0%, 42%
HSV	0°, 1%, 42%
XYZ	13.8831, 14.5417, 15.7741
YIQ	106.2990, 0.5960, 0.2120

Conversions

Conversions Part 2

Format	Color
RYB	107, 106, 106
Decimal	7039594
CIELab	45.00, 0.39, 0.13
CIElCh	45, 0.412, 18.611
Yxy	14.5417, 0.3141, 0.3290
Android (android.graphics.Color)	4285229674 (0xFF6B6A6A)
YUV	106.2990, -0.1474, 0.6148
Hunter-Lab	38.1336, -1.7481, 2.1679

Details

The CIELCh color $45, 0.412, 18.611$ is a dark color, and the websafe version is hex 666666 . A complement of this color would be $45, 0.407, 200.378$, and the grayscale version is $45, 0.006, 296.813$.

A 20% lighter version of the original color is $65, 0.384, 18.238$, and $25, 0.455, 18.974$ is the 20% darker color. If you saturate the color by 10%, you get $42, 4.987, 20.154$, and if you desaturate by 10%, it is $48, 3.838, 199.236$.

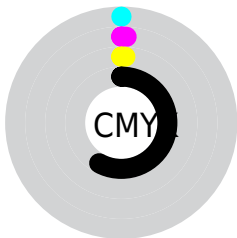
Distribution



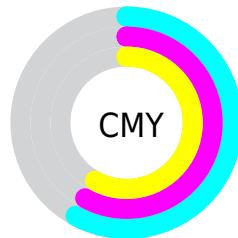
- Red (42%)
- Green (42%)
- Blue (42%)



- Red (42%)
- Yellow (42%)
- Blue (42%)



- Cyan (0%)
- Magenta (1%)
- Yellow (1%)
- Black (58%)















- Cyan (58%)
- Magenta (58%)
- Yellow (58%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 0.412, 18.611 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the CIELCh color 45, 0.412, 18.611 by changing the saturation by 10% instead.

 45, 0.412, 18.611	 45, 0.412, 18.611
 100, 0.412, 18.611	 35, 0.412, 18.611
 65, 0.412, 18.611	 25, 0.412, 18.611
 75, 0.412, 18.611	 15, 0.412, 18.611
 85, 0.412, 18.611	 5, 0.412, 18.611
 95, 0.412, 18.611	 0, 0.412, 18.611

 45, 0.412, 18.611	 45, 0.412, 18.611
 42, 4.987, 20.154	 48, 3.838, 199.236
 38, 9.910, 20.955	 52, 7.788, 198.807
 35, 15.183, 21.949	 55, 11.469,

■ 32, 20.783, 23.220	■ 198.483
■ 29, 26.651, 24.857	■ 59, 14.910, 198.224
■ 27, 32.677, 26.951	■ 62, 18.141, 198.013
■ 24, 38.705, 29.575	■ 66, 21.185, 197.838
■ 23, 44.517, 32.704	■ 69, 24.067, 197.692
■ 21, 49.276, 35.274	■ 73, 26.805, 197.570
	■ 76, 29.417, 197.466

Harmonies

Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



45, 0.412, 18.611



45, 0.407, 200.378

Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



45, 0.412, 18.611



45, 0.412, 68.611



45, 0.412, 198.611



45, 0.412, 248.611

Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



45, 0.411, 18.770



58, 0.007, 296.813



45, 0.734, 324.267



30, 0.005, 296.813



80, 0.010, 296.813

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



45, 0.411, 18.770



58, 0.549, 18.853



45, 0.355, 74.658



22, 0.247, 18.732



23, 56.924, 37.621



51, 101.368, 40.014

Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



45, 0.407, 200.378



58, 0.544, 200.295



45, 0.364, 256.165



22, 0.245, 200.417



44, 28.161, 196.672



88, 48.452, 196.689

Previews

White Background



This preview shows how the CIELCh color 45, 0.412, 18.611 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the CIE LCh color 45, 0.412, 18.611 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

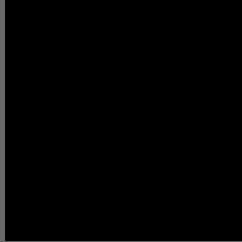
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

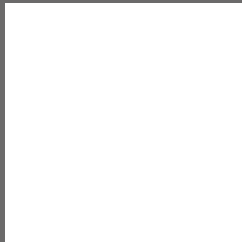
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 45, 0.412, 18.611

Background



This preview shows how black text looks on a background with the CIELCh color 45, 0.412, 18.611.



This preview shows how white text looks on a background with the CIELCh color 45, 0.412, 18.611.

Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



Original Color


45, 0.412, 18.611

Protanopia

45, 0.824, 19.084

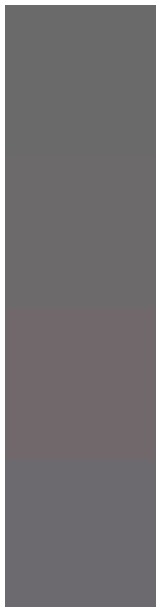
Deuteranopia

45, 5.911, 356.396



Tritanopia
45, 4.948, 304.924

Trichromacy



Original Color

45, 0.412, 18.611

Protanomaly

45, 0.824, 19.084

Deuteranomaly

45, 4.142, 354.321

Tritanomaly

45, 3.803, 309.272

Monochromacy



Original Color

45, 0.412, 18.611

Achromatopsia

45, 0.006, 296.813

Achromatomaly

45, 0.006, 296.813

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 0.412, 18.611 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(107, 106, 106)` looks like.

```
.text, #text, p{  
    color:rgb(107, 106, 106)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(107, 106, 106) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(107, 106, 106) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 0.412, 18.611 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(107, 106, 106) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(107, 106, 106) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(107, 106, 106)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(107, 106, 106); -webkit-box-  
shadow:4px 4px 4px 4px rgb(107, 106, 106);  
box-shadow:4px 4px 4px 4px rgb(107, 106,  
106) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 0.412, 18.611 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(107, 106, 106) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(107,  
106, 106) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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